


## A stylized graphic titled "KC DIGITAL ROADMAP". The background is dark blue with a repeating pattern of small, light blue icons representing various digital and industrial concepts. The central illustration features a city skyline with a prominent blue skyscraper. In the foreground, there are large, light blue, rounded shapes resembling data storage or processing units. Above the skyline, two circular insets show different scenes: the left one depicts a person in a red vest and glasses holding a tablet, with a "biz 2016" sign above them; the right one shows a person running up a bar chart, a server rack, and a document. The title "KC DIGITAL ROADMAP" is written in large, white, sans-serif capital letters at the bottom, with a stylized "K" logo integrated into the word "DIGITAL".



Digital



**Beyond Traffic**  
The Smart C  
Phase 2 App

5.24.16

1. Digital Inclusion
2. Open Government
3. Engagement
4. Industry
5. Smart City

**Advisory Board**

5.24.16

# KC Smart City Initiative Phase I: An integrated system of smart technologies deployed in Kansas City's downtown core from River Market to Union Station.

**Streetcar Line:** Streetcar line features WiFi coverage from River Market to Union Station. Citizens will also have access to 13 kiosks (KCityPost) at all Streetcar Stops.

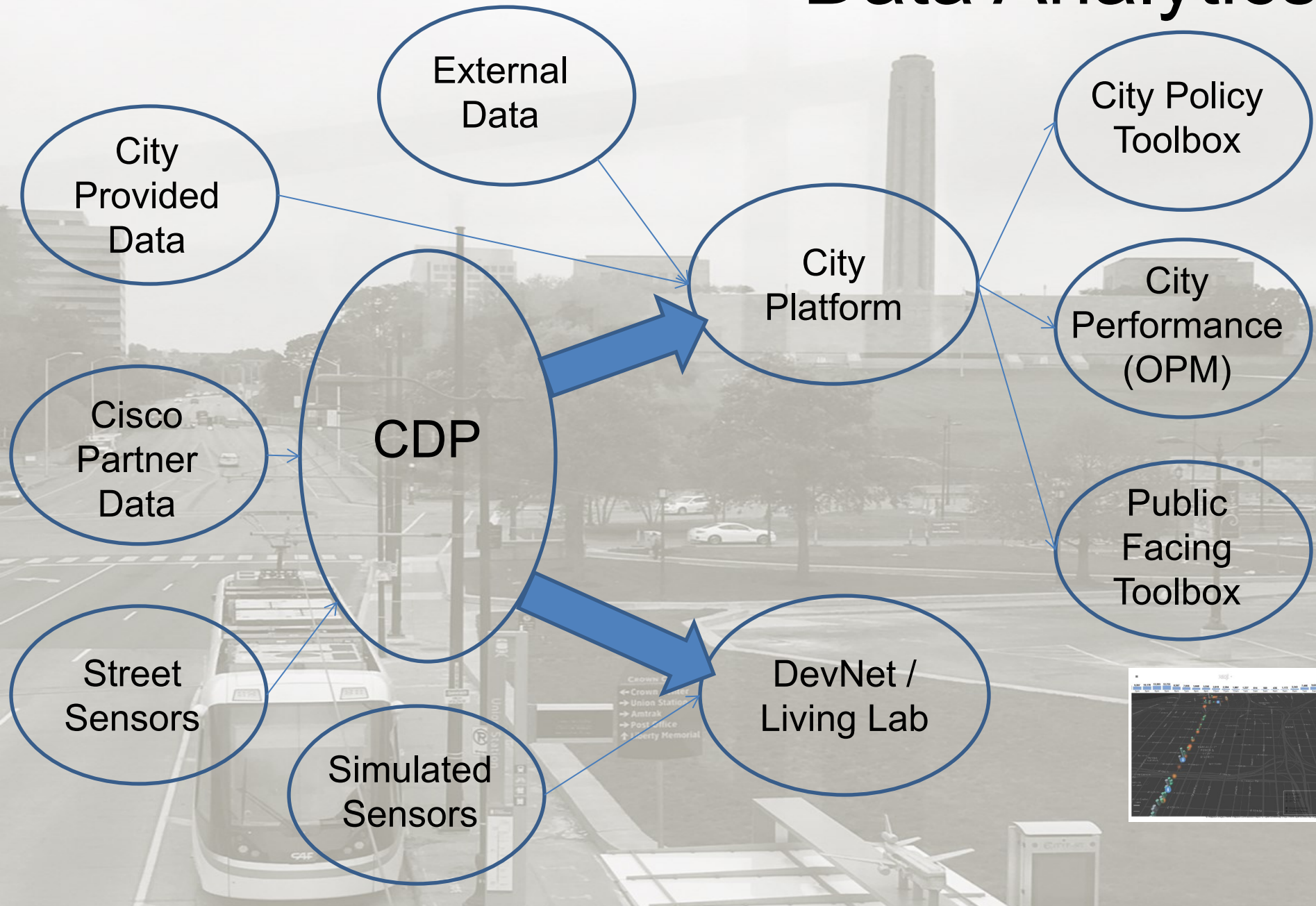
**WiFi Zone:** 328 WiFi transmitters provide coverage beyond the Streetcar line. This free WiFi will began operations on May 9 and has been accessed by over 100,000 unique customers.

**KCity Post Kiosks:** Kiosks will give citizens point access to City data, commercial content for nearby businesses and hyper-local wayfinding and event information. Thirteen kiosks are located on the streetcar line, 12 others are deployed in the area.

**Traffic Signals and Streetlights:** Dynamic traffic signals and 178 streetlights enhance traffic movement and adjust lights to meet citizen needs through Artificial Intelligence.



# Data Analytics



# Smart City Metrics

System	Metric	Description	Notes
Wi-Fi	Completion	328/328 Access Points Installed and functioning	6 APs inactive in Convention Hotel Construction site
	Efficacy	Wi-Fi speeds at north end of loop exceed market average; at or below average south of the 9 <sup>th</sup> St	
	Reliability	Wi-Fi functional over 99% of the time; maintenance operations functioning well	Network transition from Cisco to Sprint May 2017
Kiosks	Completion	All initial 25 kiosks installed; two KC ATA kiosks installed at 3-Trails.	12 kiosks to be installed at KCI in March/April
	RoI	Total Ad Revenues Jul 16 – Jan 18: \$401,524 City Revenue: \$101,219	Growth expected concurrent w/ network growth.
	Content	Apx 350,000 engagements. Averaging 16,000 / Mo Beacons being deployed	10,000 <sup>th</sup> Selfie expected in late Feb

# Smart City Metrics

System	Metric	Description	Notes
Sensors	Completion	128/128 Video Nodes installed, 72 of 72 Core Nodes installed	
	Efficacy	Streetcar Support Alarm working at Traffic Ops Division	
	Reliability	Nodes now working reliably, it took several months to “tune”	
Data Analysis	Data Availability	City data available via KCLivingLab.org Kinetic for Cities 4.0 in works	External data research at AU, National Labs
	Data Utility	Still using proxy data for crime, econ trend analysis; work plan in place for econ trend analysis	
	Data Use Cases	Building, roads and Digital Inclusion delivered. Crime delivered in Feb & in refinement	Work plan established through May

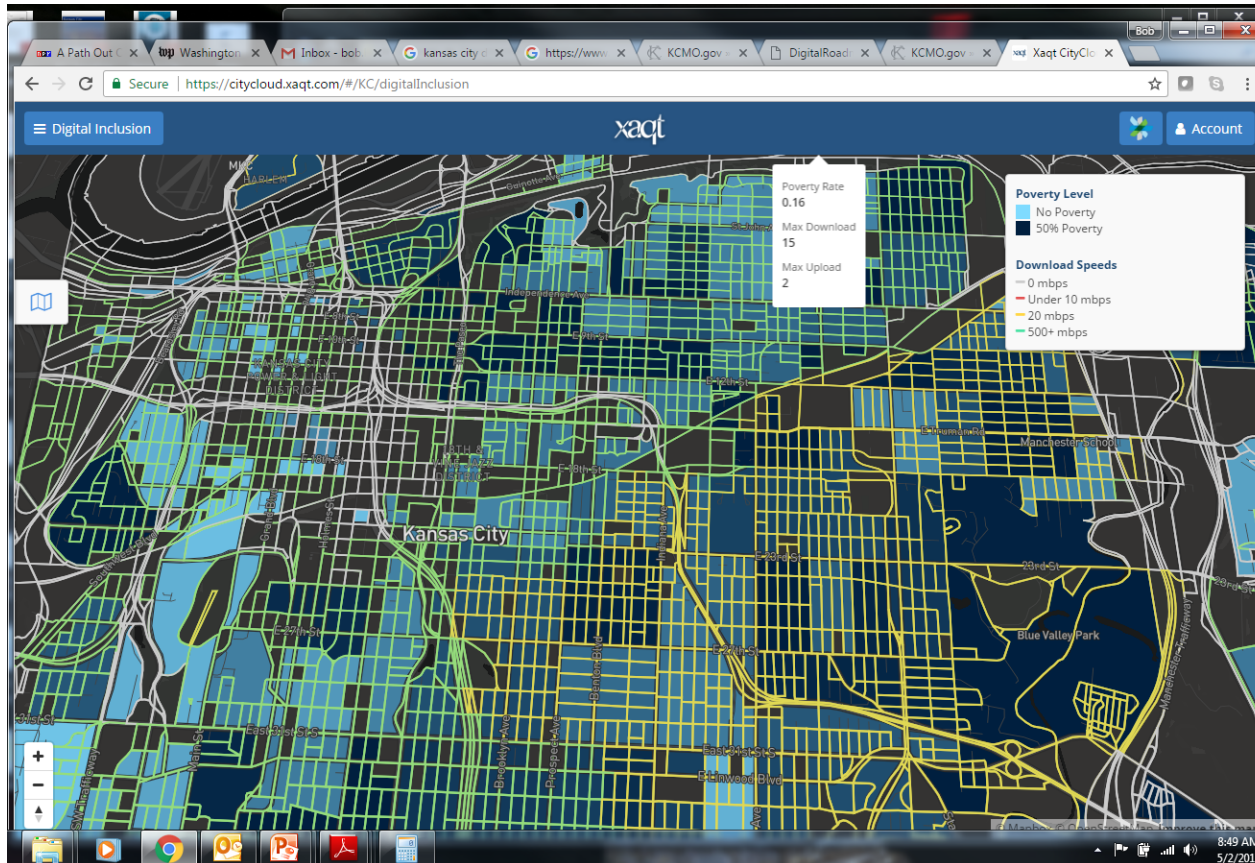
# Smart City Metrics

- Over 8 Million WiFi Engagements to Date
  - 2.4 Million Visitors (Non-816/913 Area Codes)
  - 28% Average Adaption Rate
- KCMO Brand Enhancement
  - Over 50 News Articles
  - Selection of KCMO for Conferences
    - Smart Cities Connect
    - IEEE
    - Cities 20/20
  - Smart City Academy Site Selection

# National Recognition for Phase I

- 2018 “Smart 50 Award” at Smart City Connect
- 2017 Edison Awards: Gold Award (Collective Disruption)
- 2017 American Public Works Association : Technical Innovation Award
- Amazon Web Services: City on a Cloud Challenge
- 2017/2018 NIST Supercluster (City Platform) Selection
- 2016 US Ignite Flame Award
- 2017 Envision America Selection
- 2016/2017 Harvard Smart City Accelerator Selection

# Smart City Data Release: Digital Inclusion



<http://kcdigital.xaqt.com/#/KC/digitalInclusion>

<http://smartkcmo.xaqt.com/dashboard#/KC/publicTraffic>



# Kansas City Living Lab

BUILDING SMART CITIES OF THE FUTURE <http://kclivinglab.org/>

- A virtual and physical environment for entrepreneurs, application developers and academic institutions to use city data to develop the next generation of innovative tools
  - Virtual: Cisco DEVNET
  - Physical: ThinkBig Partners
- Monitored Access (City, Cisco, ThinkBig)
- Entrepreneur support available

# Smart City RFP

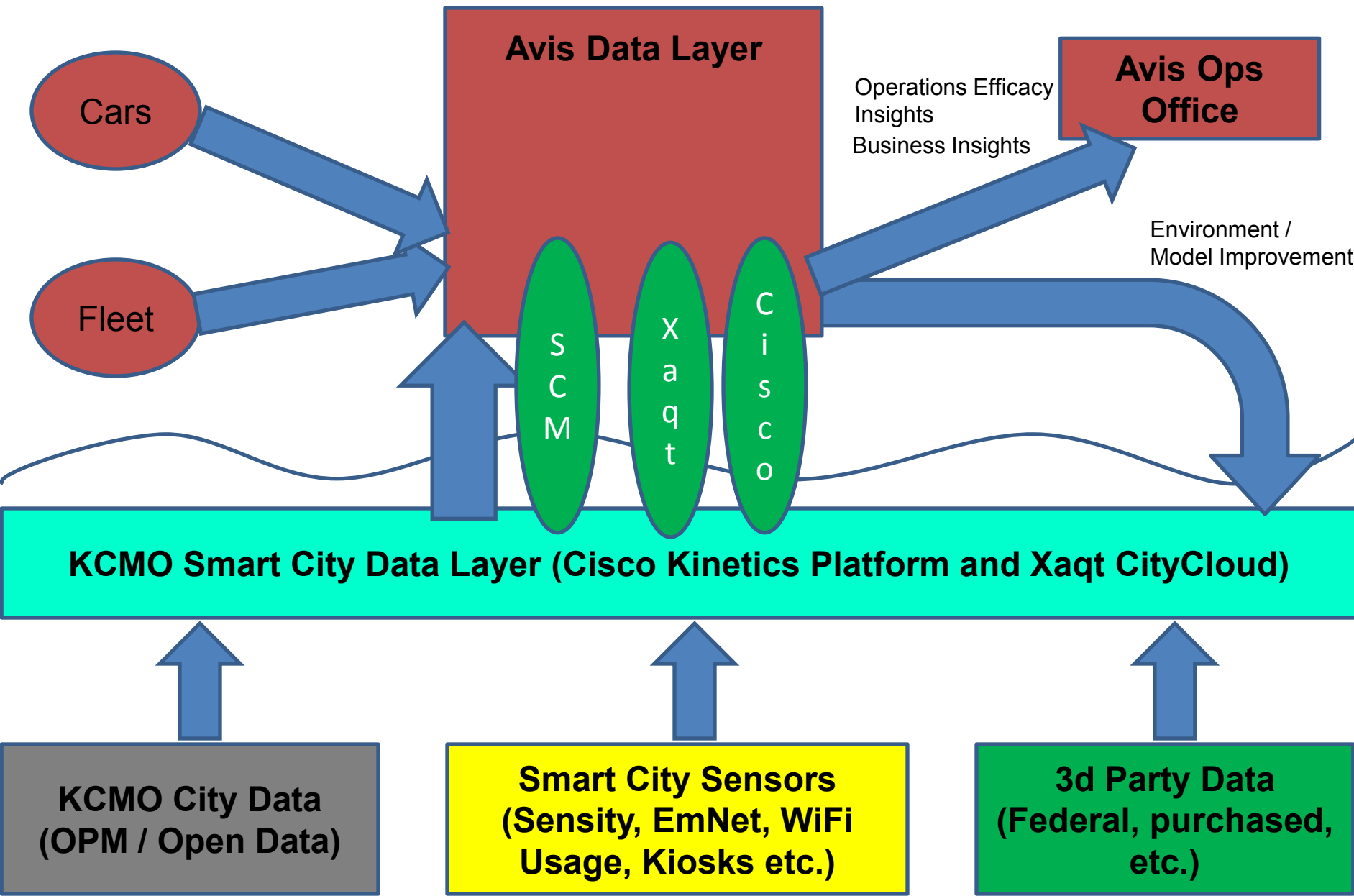
- Public/Private Partnership Opportunity
  - 10-30 Year Partnership
  - City provided access / connectivity
- Expand Smart City Infrastructure
  - Prospect MAX Support
  - Streetcar Expansion Support
  - Water Mesh Connectivity
- Long-term analytics support
- IDC Selected to support RFP process
- Spring 2018

# Data Analytics Use Cases Schedule

- March
  - New Data Interface Release
  - Refinement to Crime Prediction
  - Update to City Directors
- April
  - Public Health
  - Economic Analysis
- May
  - Education Analysis

# The Avis Mobility Lab

- Public/Private Partnership Opportunity
  - Proposed by Avis, Nov 2017
  - Occurring with/without KCMO
- Data / Content Exchange
  - Traffic/Parking/Construction
  - Local Media / Ad Content
  - Existent Agreements
- March Highlights



# Innovation Opportunities



- Partnerships
  - Multi-City Relationships
  - Support Regional Efforts: MARC and KC ATA
  - Digital Inclusion / Grant Programs
  - Entrepreneur Community
- Innovation Partnership Program
  - Third class of IPP participants in development
  - National replication of the program

The Future is Now.  
KC is Ready.

